4100

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

KENNEDY et al.

Serial No.: 08/822,947

Filed: March 21, 1997

For: POSITION-BASED INTEGRATED

MOTION CONTROLLED CURVE

SAWING

Examiner: Bray

Art Unit: 3725

Batch No:

IV/P04111US3

LETTER

Assistant Commissioner of Patents

Washington, D. C. 20231

S I R:

In response to the Notice of Allowability mailed September 28, 1998, new formal drawings are enclosed herewith.

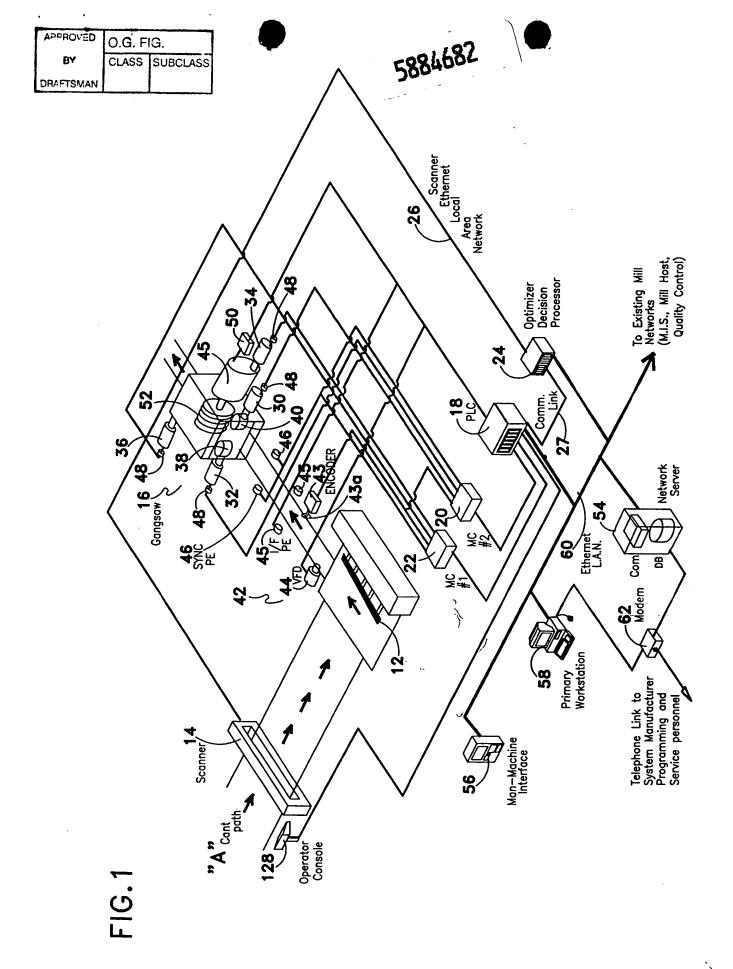
Respectfully submitted,

Date: December 16, 1998

Walter C. Gillis

Registration No. 22,086

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APPROVED	O.G. FIG.	
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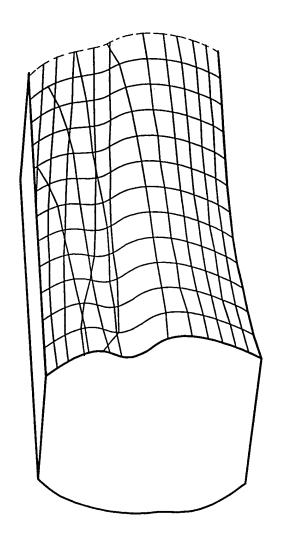
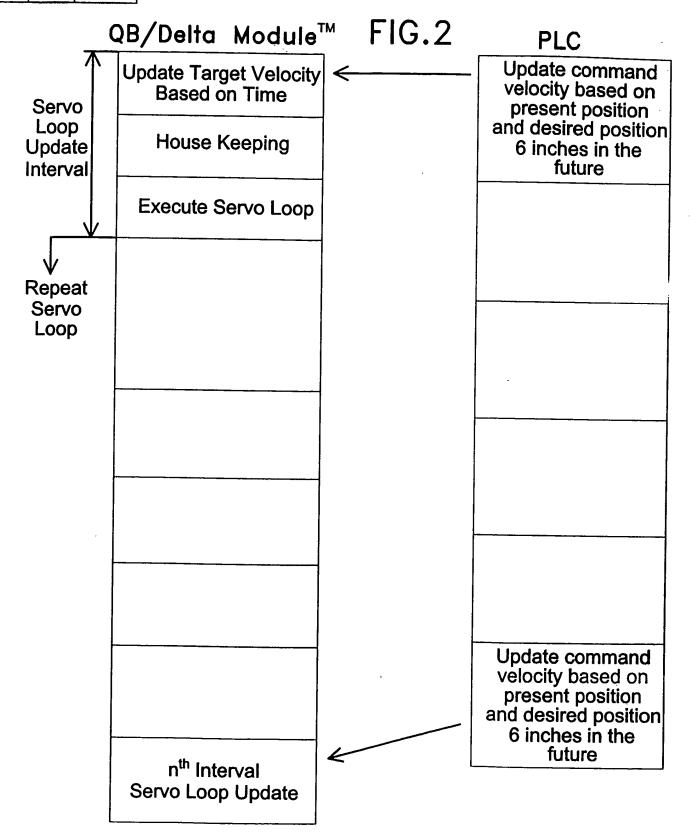
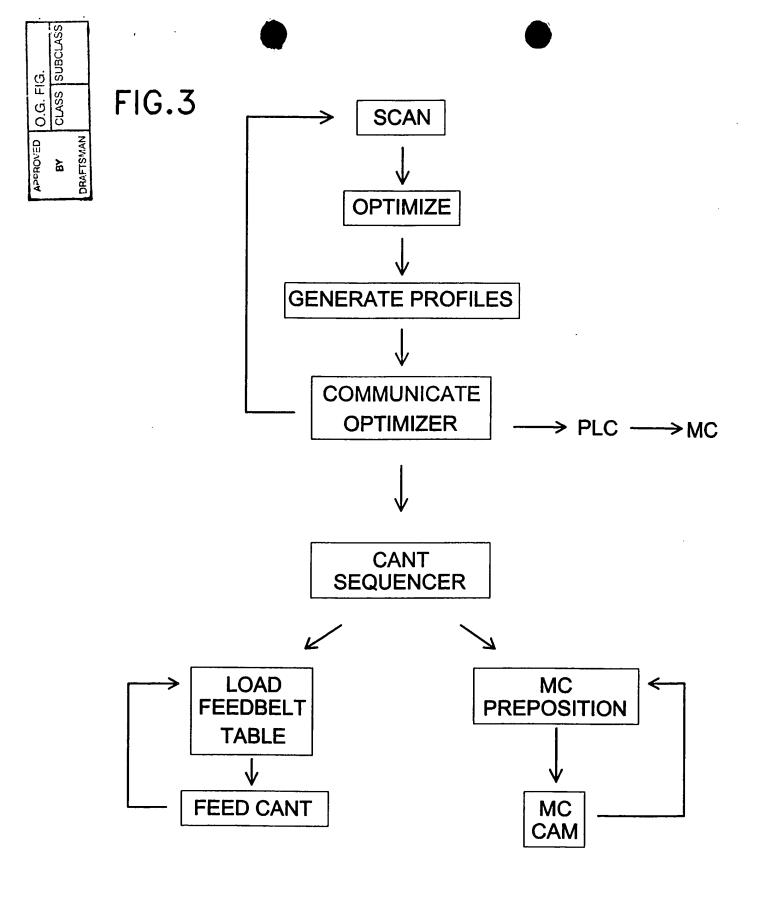
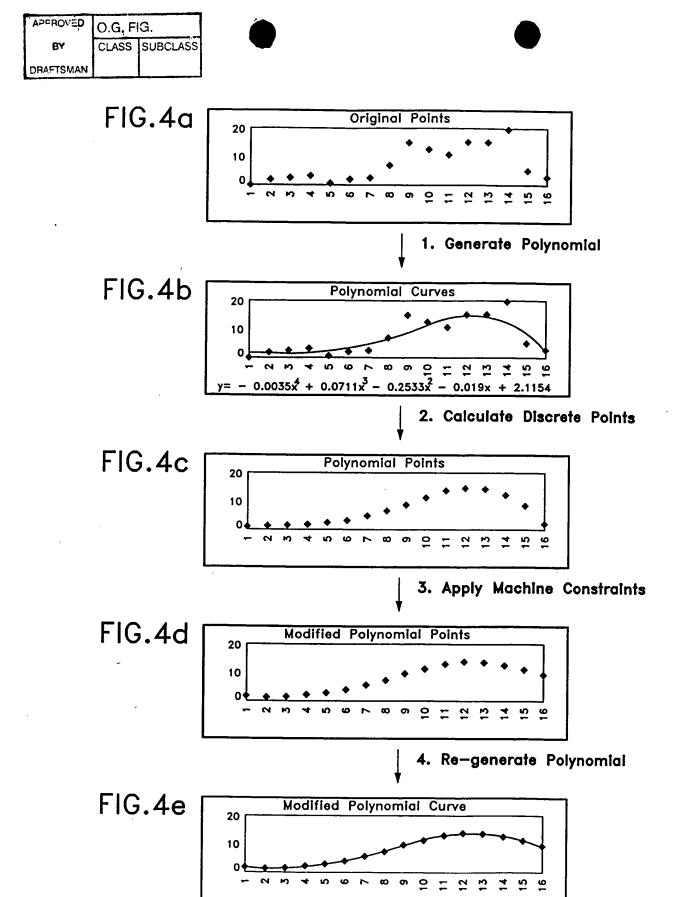


FIG.1a

APPROVED	O.G. FIG.	
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APPROVED	O.G. FIG.	
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Fig 5a	IMC Motion Control
	Supervisory Code
	I/O Network
	Update Encoder Position
	Update Target Position Based on Encoder Position
Servo Loop Update	Update Target Position Based on Encoder Position
Interval	Other Tasks
	etc.
	etc.
	Calculate Servo Loop and Update
	Calculate Servo Loop and Update
Papast	Supervisory Code
Repeat Servo Loop	I/O Network

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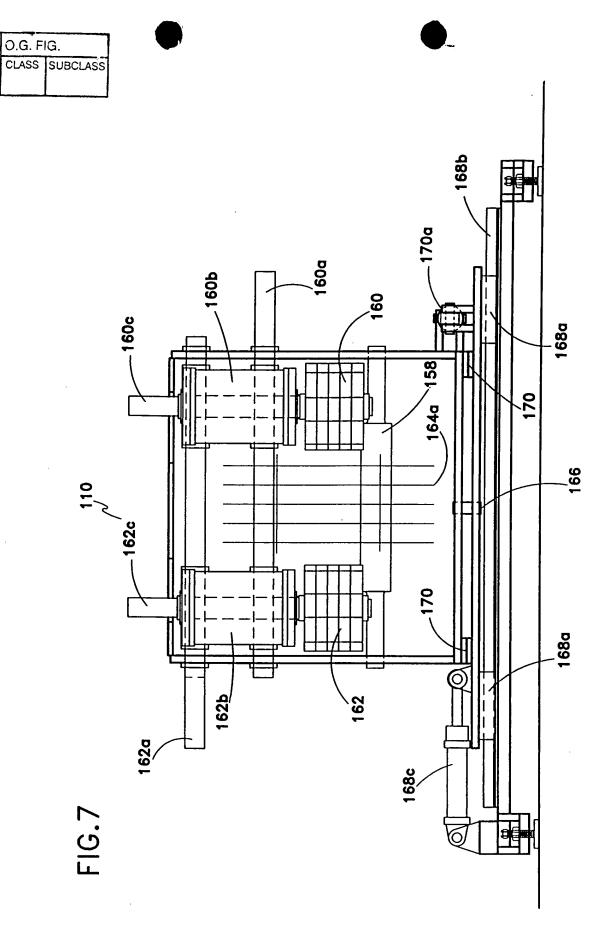
APPROVED	O.G. FIG.	
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X pivot line Pn(x) chip head 2 line Po(x) chip head 1 line P(x) solution line chip head axis /(X2,Y2) saw box CL ğ 0 (X1,Y1) 0 (Xh,Yh) Xset (Xp,Yp) pivot axis (Xs,Ys) saw line Y ¶offset line

Fig 5b

APPROVED O.G. FIG. CLASS SUBCLASS BY DRAFTSMAN 156a 156a 1,68b 0 0 156a. $\circ)$ 156a -156 156a

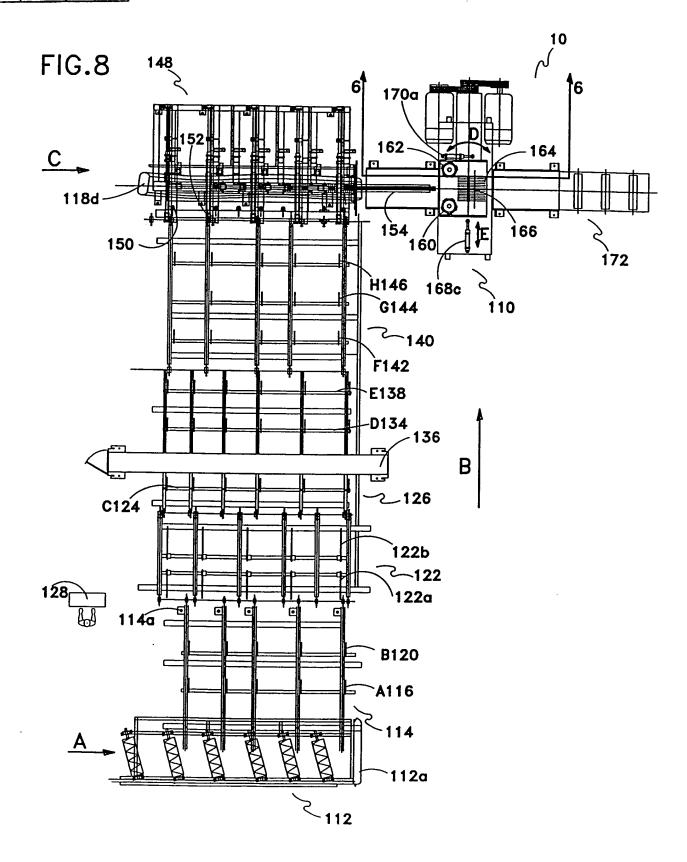
F 6.0

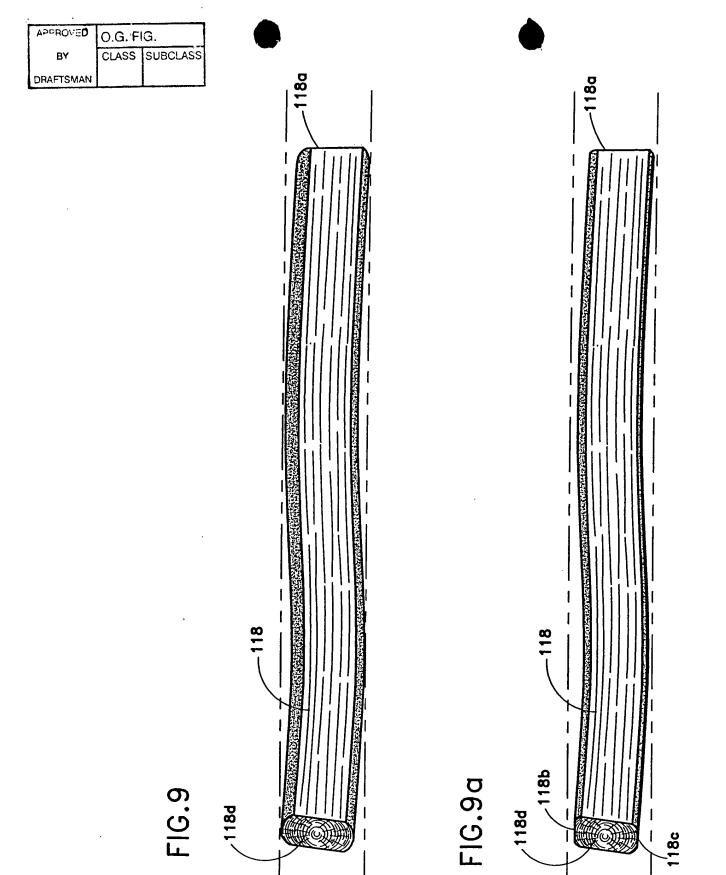


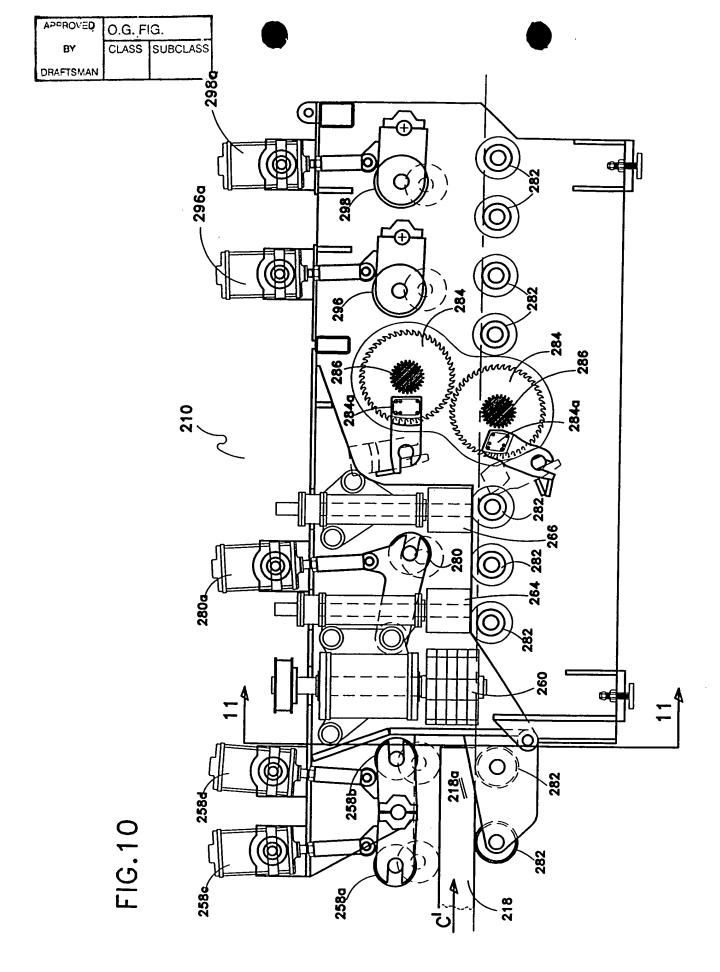
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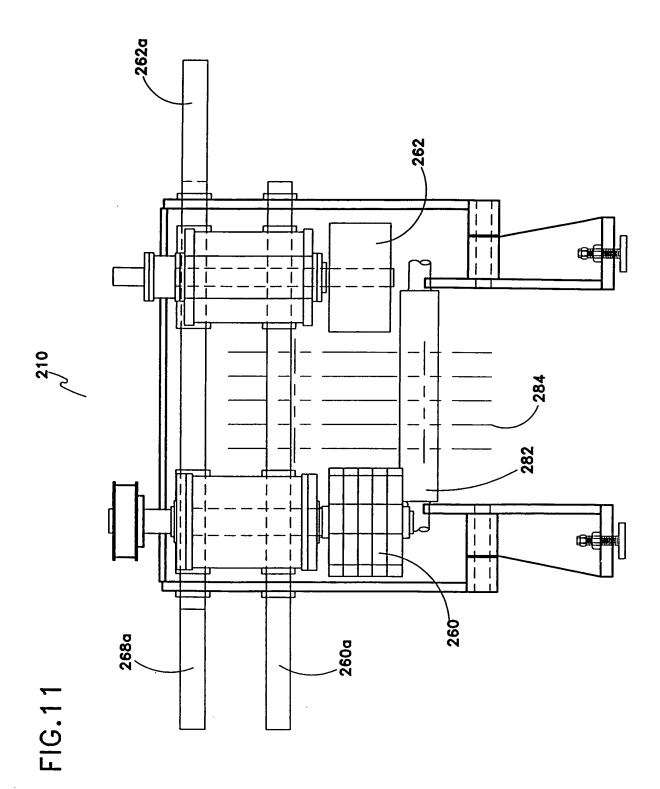
APPROVED	O.G. FIG.	
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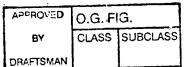
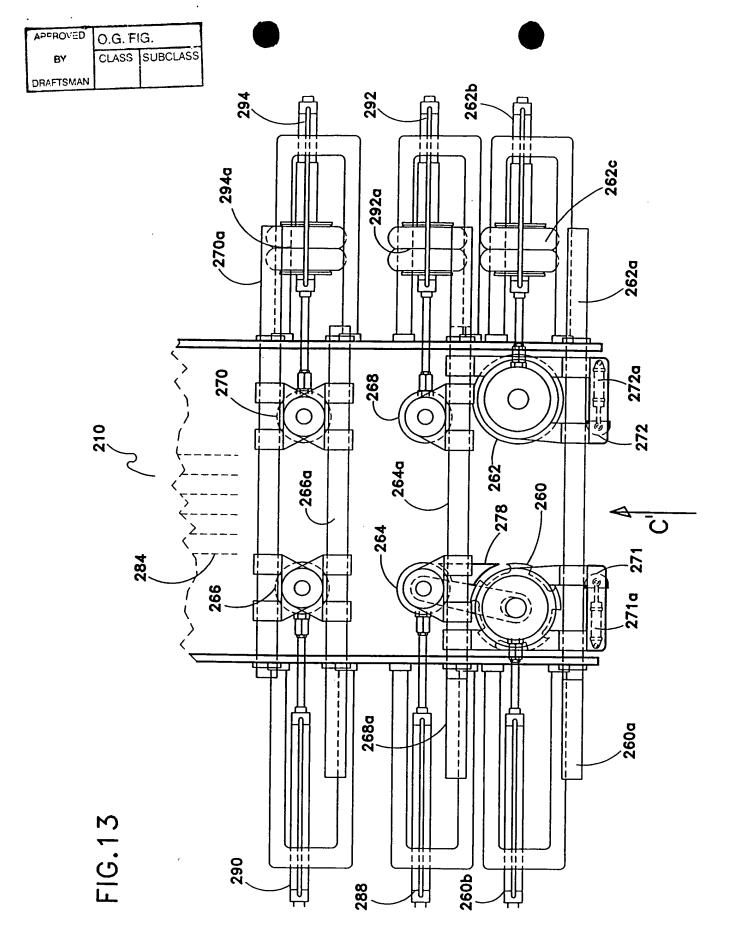
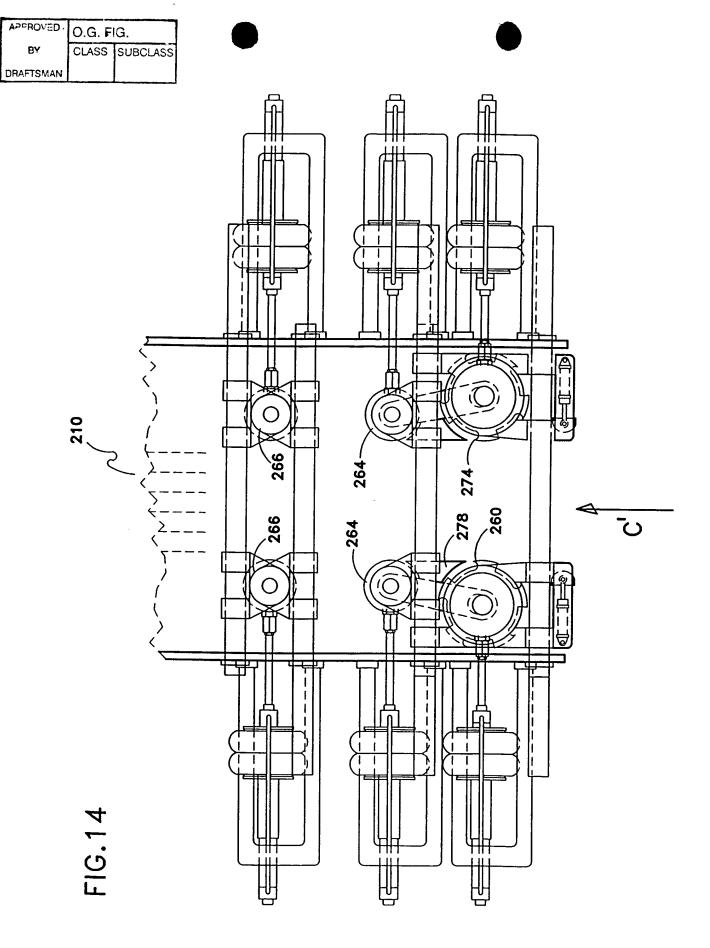
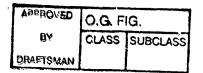


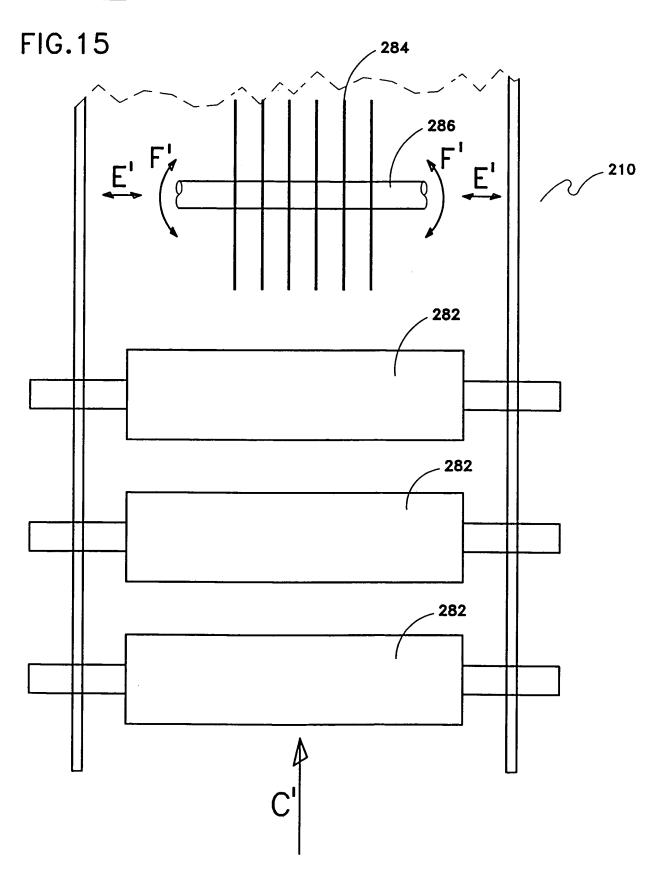
FIG. 12 252 256a 256 248 254 ,260 218 282 250 -262 210 H246 G244 ²—240 F242 E238 -D234 -236 B **226** C224 222b 228 222 222a 214a c **B220** A216 `212a

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APEROVED O.G. FIG.
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FIG. 16

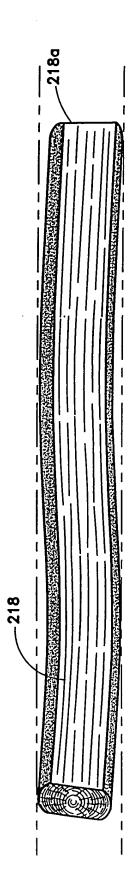
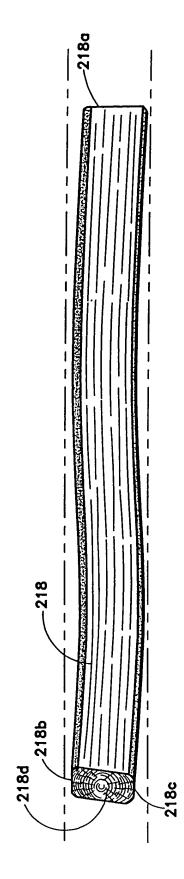
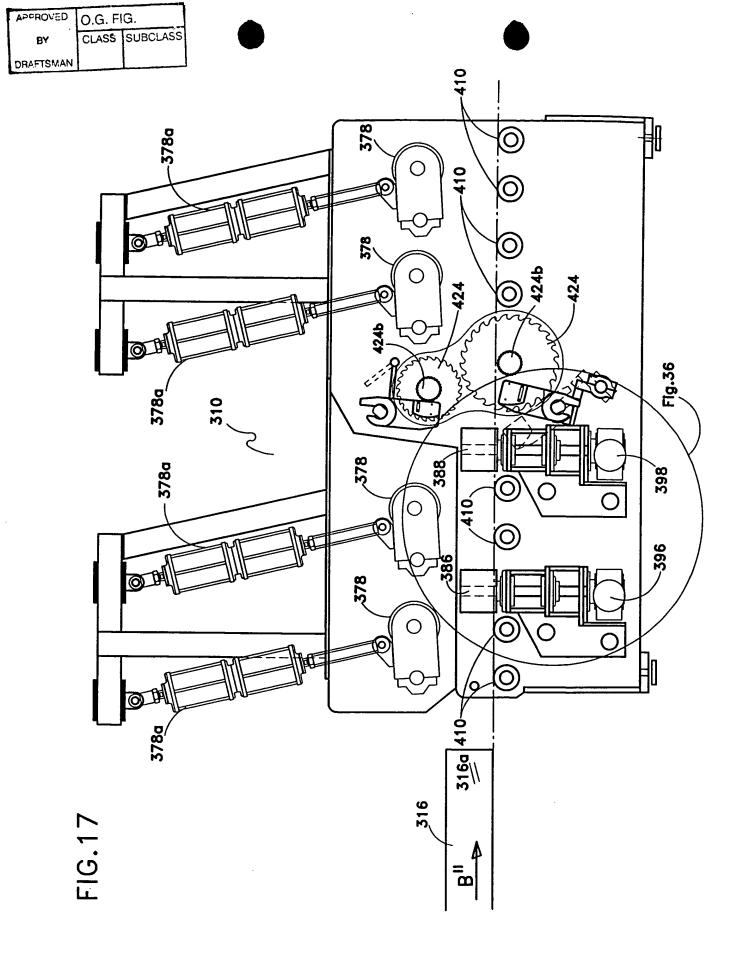
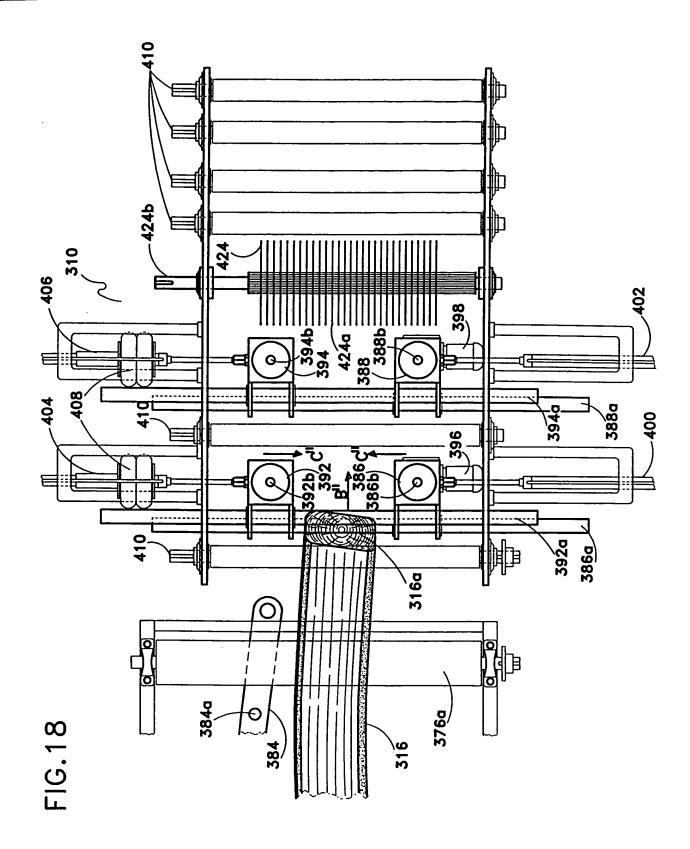


FIG. 16a





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DRAFTSMAN 424b -378 388 394a 388a -386 -396 -378 386a

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O.G. FIG.

APPROVED	O.G. FIG.	
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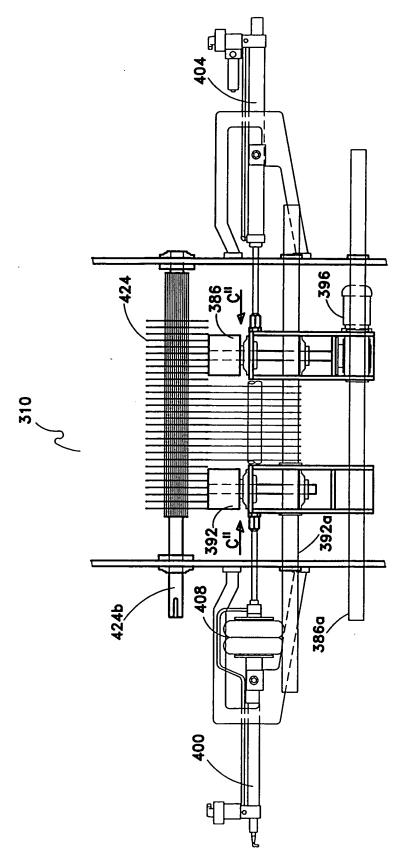


FIG.21

APPROVED O.G. FIG.
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FIG. 20

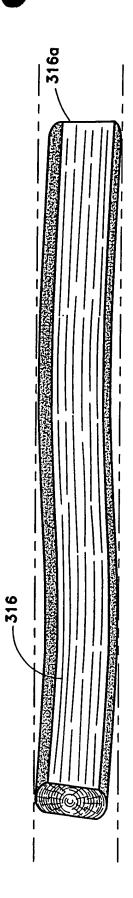


FIG. 20d

